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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/511,616	11/15/2005	Roy Curtiss III	56029-51044	4042
70119 7590 04/08/2008 THOMPSON COBURN LLP ATTN: RICHARD E. HAFERKAMP			EXAMINER	
			ARCHIE, NINA	
ONE U.S. BA			ART UNIT	PAPER NUMBER
	,		1645	
			NOTIFICATION DATE	DELIVERY MODE
			04/08/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

IPDOCKET@THOMPSONCOBURN.COM

Application No. Applicant(s) 10/511.616 CURTISS, ROY Office Action Summary Examiner Art Unit Nina A. Archie 1645 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 15 October 2004. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-40 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) _____ is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-40 are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (FTO/S5/0E)
 Paper No(s)/Mail Date ________

Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to

elect a single invention to which the claims must be restricted.

- 1. Group I: claims 1-17, 19, and 21-40, and 27-31, drawn to a live attenuated derivative of a pathogenic Salmonella species consisting essentially of (a) a means for regulatable expression of a gene that encodes a regulatory protein, wherein non-expression of said regulatory protein in vivo causes synthesis of a first antigen that is conserved among Salmonella species and E. coil strains; and (b) a means for regulatable synthesis of a first carbohydrate antigen, wherein said first carbohydrate antigen ceases to be synthesized in vivo, exposing a second carbohydrate antigen that is conserved among Salmonella species and E. coil strains; wherein said attenuated derivative has enhanced ability to induce cross-protective immunity against Salmonella species and E. coil strains, a method for inducing, a vaccine, a recombinant bacterial strain, and a live attenuated derivative of a pathogenic Enterobactericiae species.
- 2. Group II: claims 18 and 20, drawn to a live attenuated derivative of a pathogenic Salmonella species consisting essentially of (a) a means for regulatable expression of a first surface antigen, wherein said first surface antigen is conserved among Salmonella species and E. coil strains; (b) a means for regulatable expression of a second surface antigen, wherein said second surface antigen is not conserved among Salmonella species and E. coil strains, wherein up regulation of said first surface antigen and down regulation of said second surface antigen results in

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enhanced ability of said attenuated derivative to produce immunity against Salmonella species and E. coil strains and a method for inducing.

3. The inventions listed as Groups I-II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The special technical feature of Group I is a live attenuated derivative of a pathogenic Salmonella species consisting essentially of (a) a means for regulatable expression of a gene that encodes a regulatory protein, wherein non-expression of said regulatory protein in rive causes synthesis of a first antigen that is conserved among Salmonella species and E. coil strains; and (b) a means for regulatable synthesis of a first carbohydrate antigen, wherein said first carbohydrate antigen ceases to be synthesized in vivo, exposing a second carbohydrate antigen that is conserved among Salmonella species and E. coil strains. Groups II lack a special technical feature because of the following reasons: the claims in Group II are drawn to the second technical feature, a live attenuated derivative of a pathogenic Salmonella species consisting essentially of (a) a means for regulatable expression of a first surface antigen, wherein said first surface antigen is conserved among Salmonella species and E. coil strains; and (b) a means for regulatable expression of a second surface antigen, wherein said second surface antigen is not conserved among Salmonella species and E. coil strains. Groups I and II are structurally different and there is nothing to distinguish the instantly claimed product of Group II from the product of Group I.

Group II lacks unity with Group I because the technical feature for Group II is not shared with Group I (as set forth supra). Therefore, an assessment cannot be made whether there is technical feature common to all the groups that is "special" within the meaning of PCT Rule 13.2. and that makes for a contribution that the claimed invention makes over the prior art.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the

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requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nina Archie whose telephone number is 571-272-9938. The examiner can normally be reached on M-F 8:30am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's acting supervisor, Shanon Foley can be reached on 571-272-0898. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Nina A Archie/ Examiner, Art Unit 1645 /N. A. A./ Examiner, Art Unit 1645

Nina Archie Patent Examiner Art unit. 1645

/Mark Navarro/ Primary Examiner, Art Unit 1645 Art Unit: 1645